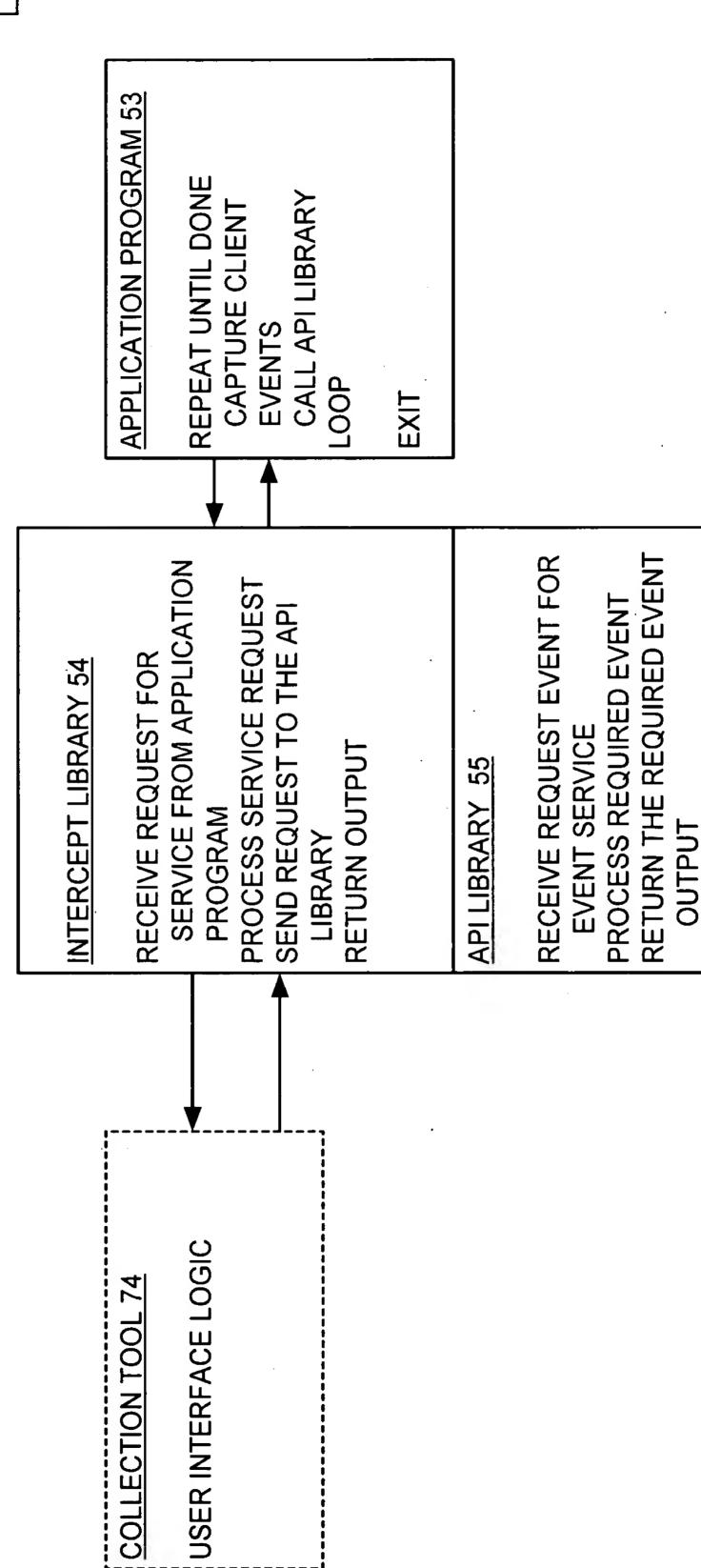


APPROVED O.G. FIG.

BY CLASS SUBCLASS

DRAFTSMAN

FIG. 2C



APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN

APPLICATION PROGRAMMING INTERFACE LIBRARY 55

FIG. 3

PRIOR ART

APPLICATION PROGRAM 53

REPEAT UNTIL DONE

CAPTURE CLIENT

EVENTS

CALL API LIBRARY

LOOP

RECEIVE REQUEST FOR SERVICE FROM APPLICATION PROGRAM

IF INTERCEPTION IS ENABLED, THEN CALL INTERCEPT MODULE

ELSE

PROCESS REQUIRED EVENT
RETURN THE REQUIRED EVENT OUTPUT
RETURN TO RECEIVE NEXT REQUEST

INTERCEPT MODULE 56

COLLECTION TOOL 75

SIMPLE DATA

COLLECTION

RECEIVE REQUEST FROM API
ESTABLISH COMMUNICATION WITH
APPROPRIATE INSTRUMENTATION
TOOL

SEND EVENT DATA TO THAT INSTRUMENTATION TOOL

WAIT FOR REPLY

IF INSTRUMENTATION TOOL REQUESTS

NORMAL API REQUIRED EVENT

PROCESS REQUIRED EVENT

RETURN REQUIRED EVENT OUTPUT

RETURN TO RECEIVE NEXT REQUEST

APPROVED O.G. FIG.

BY CLASS SUBCLASS

DRAFTSMAN

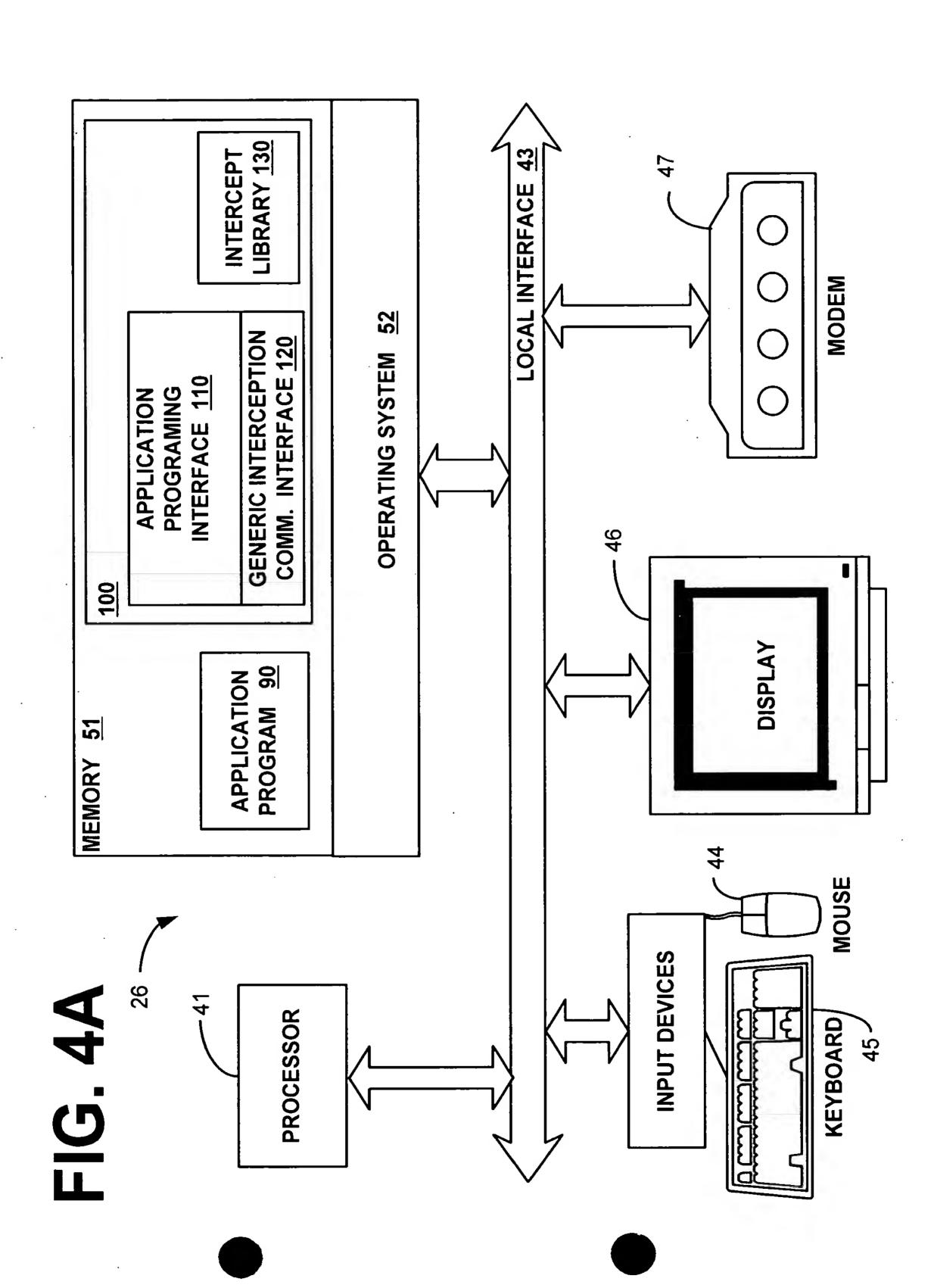


FIG. 4C

APPLICATION PROGRAM 90

T EVENTS REPEAT UNTIL DONE CAPTURE CLIEN **CALL API**

LOOP

130 \mathbb{Z} INTERCEPT LIBRA

REGISTER EVENTS OF INTEREST AND EVENT RECEIVING HANDLERS ESTABLISH COMMUNICATION WITH CONTROL TOOLS INITIALIZATION

TOOLS

CONTROL

150

SIMPLE DATA

COLLECTION

WAIT TO RECEIVE EVENT FROM API
PERFORM EVENT DATA PROCESSING
IF REQUIRED TO PROCESS EVENT
PROCESS EVENT
RETURN SERVICE REQ. OUTPUT
RETURN SERVICE REQ. OUTPUT
RETURN REPLY TO API THAT
EVENT WAS HANDLED

RETURN REPLY TO API THAT THE EVENT WAS NOT HANDLED TO RECEIVE NEXT RETURN TO WAIT TO EVENT FROM API ELSE

API

SEARCH FOR INTERCEPT LIB.
IF INTERCEPT LIB. FOUND
SEND INITIALIZATION EVENT
WAIT FOR REPLY

INIT. INTERCEPT EVENT SEND HANDLERS IN GENERIC INTERCEPTION COMM. INTER.

RECEIVE SERVICE REQ. FROM APP. PROG. IF INTERCEPTING

GENERATE EVENTS FOR SERVICE REQ. SEND EVENTS TO INTERCEPT LIB. USING

SEND HANDLERS IN GENERIC INTERCEPTION COMM. INTER.

IF INTERCEPT LIB. HANDLED ALL EVENTS RETURN WAIT FOR REPLY

SE Ш

SERVICE APP. PROG. REQUEST RETURN SERVICE REQ. OUTPUT TO APP. PROG.

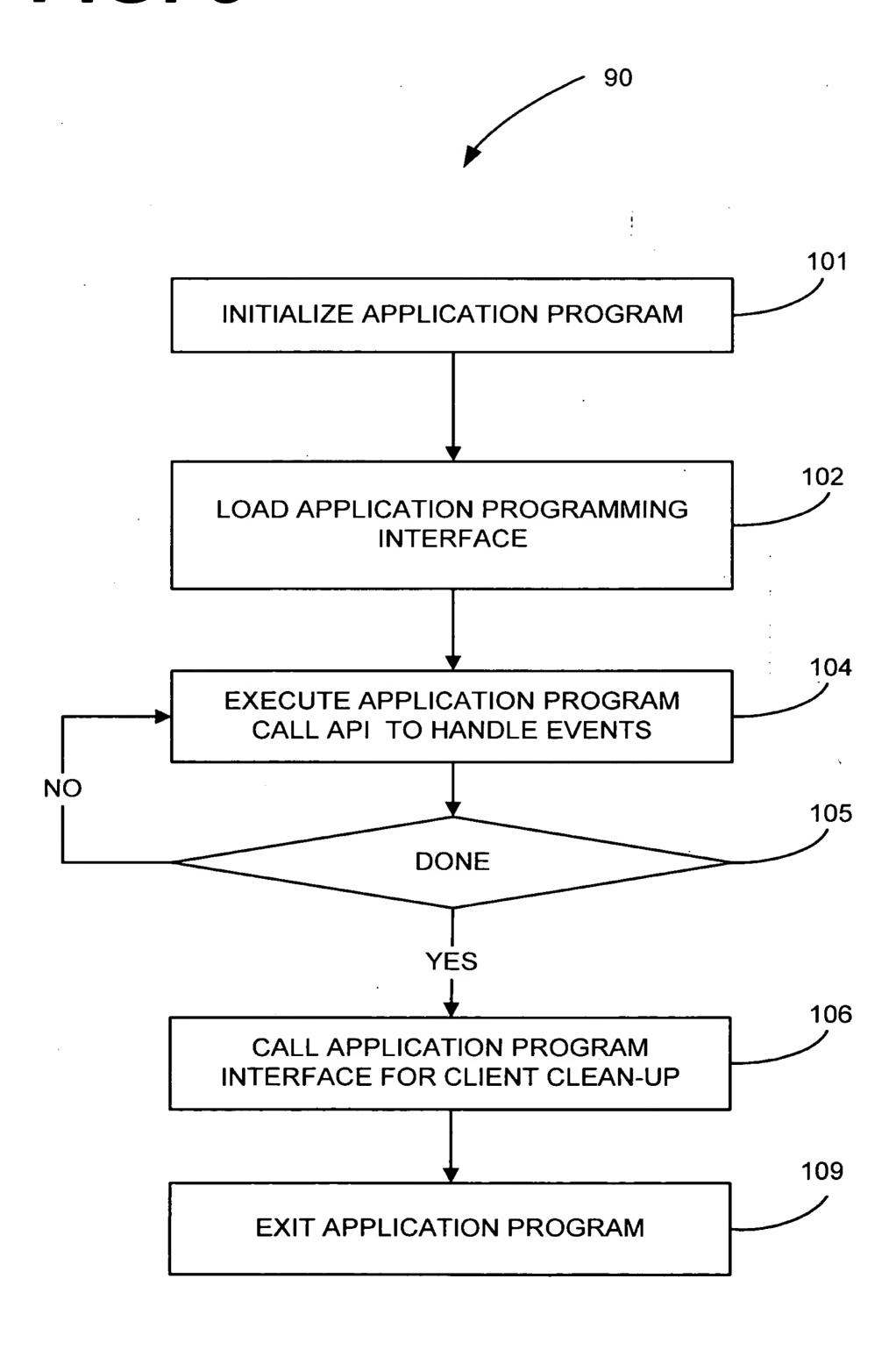
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SERVICE APPL. PROG. REQUEST RETURN SERVICE REQ. OUTPUT TO APP. **PROG**

INTER GENERIC INTERCEPTION COMM. (SEND HANDLERS) 120 RECEIVE EVENT FROM API SEND EVENT TO REQUIRED INTERCEPTION LB

WAIT FOR REPLY FROM INTERCEPTION LIB. SEND TO API SEND.





IF INTERCEPTING,

CALL INTERCEPT LIBRARY CLEAN-UP ROUTINE

EXIT APPLICATION PROGRAM INTERFACE





